herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308. 1. □ This communication is responsive to				
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Application/Control Number: 10/549,870

Art Unit: 2858

REASONS FOR ALLOWANCE

- 1. Claims 1-11 are allowed.
- 2. The following is an examiner's statement of reasons for allowance:

Claims 1-11 are allowable because none of the prior art teaches a voltage measurement device for dividing a plurality of voltage sources into a plurality of blocks and for measuring voltage of a block, the voltage measurement device comprising: a second group of switches including a first MOSFET of a second conductivity type, which has a second main electrode connected to one terminal of a first storage element and a first main electrode connected to a first voltage output terminal and which is turned ON/OFF in correspondence with a signal inputted to a control electrode, and a second MOSFET of the second conductivity type, which has a second main electrode connected to the other terminal of the first storage element and a first main electrode connected to a second voltage output terminal and which is turned ON/OFF in correspondence with a signal inputted to a control electrode; a third group of switches including a third MOSFET of the second conductivity type, which has a second main electrode connected to the control electrode of a first MOSFET of the first conductivity type and which is turned ON/OFF in correspondence with a signal inputted to a control electrode and a fourth MOSFET of the second conductivity type, which has a second main electrode connected to the control electrode of a second MOSFET of the first conductivity type and which is turned ON/OFF in correspondence with a signal inputted to a control electrode; and control means for turning on the first group of switches by turning on the third group of switches and for turning on the second group of switches

while the first group of switches is turned off by turning off the third group of switches, and in the combination as claimed.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Maki (U. S. Patent No. 6, 541, 980) discloses a multiplex voltage measurement apparatus for measuring the voltage of each of N serially connected voltage sources via voltage detection terminals coupled to a capacitor. A plurality of switches is used in the circuit.

Furukawa (U. S. Patent No. 6, 362, 626) discloses a cell voltage measuring device wherein component cells are divided into a plurality of cell blocks. A plurality of voltage detecting means including a plurality of switches is used for measuring the voltage.

Mukainakano (U. S. Patent No. 6, 407, 534) discloses a voltage detecting circuit including two groups of switches for detecting the level of the secondary battery voltage in comparison to a predetermined battery voltage.

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4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Amy He whose telephone number is (571) 272-2230. The examiner can normally be reached on 8:30am-5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Diane Lee can be reached on 571-272-2399. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

AH June 7, 2006.

ANJAN DEB PRIMARY EXAMINER